

INTERNATIONAL SEARCH REPORT

national Application No

PCT/EP 02/00675

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16D3/06 F16C29/04 B62D1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16D F16C B62D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 427 656 A (MILLER DONALD E) 11 February 1969 (1969-02-11) cited in the application the whole document ----	1
A	US 5 620 259 A (MAINARDI GIANFRANCO) 15 April 1997 (1997-04-15) cited in the application the whole document ----	1
A	US 4 280 341 A (KRUE WERNER) 28 July 1981 (1981-07-28) the whole document ----	1
A	DE 196 21 464 A (SCHAEFFLER WAEZLAGER KG) 4 December 1997 (1997-12-04) the whole document ----- -/-	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

15 May 2002

Date of mailing of the international search report

23/05/2002

Name and mailing address of the ISA

Authorized officer

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/00675

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 27 05 331 A (SCHAEFER WALTER) 10 August 1978 (1978-08-10) the whole document -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

national Application No

PCT/EP 02/00675

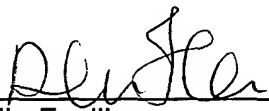
Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			FR 2416376 A1	31-08-1979
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			WO 9745230 A1	04-12-1997
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			ES 2140233 T3	16-02-2000
			JP 2000510770 T	22-08-2000
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VERIFICATION OF A TRANSLATION

I, Antonella Fusillo, resident of the United States, residing at 28-32 45th Street, # 2F, Astoria, N.Y. 11103, depose and state that:

1. I am familiar with the English and German languages.
2. I have read the attached German Search Report regarding German patent application no. 101 06 982.0.
3. The hereto attached English language text is an accurate translation thereof.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.



Antonella Fusillo

Date: August 18, 2003

GERMAN PATENT- AND
TRADEMARK OFFICE
80297 Munich

Date: 10-11-2001 Page: 1

Appl. No.: 101 06 982.0

ANNEX 1

for information about the researched references according to § 43 of the Patent
law

References:

DE	196 19 449 A1
DE	31 24 927 A1
DE	89 06 246 U1
FR	26 29 156 A1
US	31 69 407
EP	02 81 723 A2

DE	37 30 393 A1
DE	22 37 408 A
DE	6 49 218 C
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US	20 23 796

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ANNEX 2

Appl. No.: 101 06 982.0

DOCUMENTS CONSIDERED TO BE RELEVANT

1	2	3
Category	Citation of Documents, with indication, where appropriate, of the relevant passages	Relevant to claim no.
Y	US 34 27 656 Fig.1-11	1,6,10
Y	DE 196 19 449 A1 Fig. 1,2	2,3,5,10
Y	FR 26 29 156 A1 Fig. 1-3	2,3,4
Y	DE 22 37 408 A Fig. 1,2	2,3,7
Y	US 20 23 796 Fig. 1-6	2,3,4,5,10
Y	US 31 69 407 Fig. 1-8	1-6
Y	DE 89 06 246 U1 Fig. 3	8
Y	DE 6 49 218 C Fig. 6	1,3,4,6,10
Y	EP 02 81 723 A2 Fig. 1-7	1,9
Y	DE 31 24 927 A1 Fig. 1,2	1,9
Y, D	DE 37 30 393 A1 Fig. 1,7	1,5,9

101 06 982.0

Deutsches Patent- und Markenamt · 80297 München

Anlage 1

zur Mitteilung über die ermittelten Druckschriften
gemäß § 43 des Patentgesetzes

Druckschriften:

DE	196	19	449	A1
DE	31	24	927	A1
DE	89	06	246	U1
FR	26	29	156	A1
US	31	69	407	
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DE	37	30	393	A1
DE	22	37	408	A
DE	6	49	218	C
US	34	27	656	
US	20	23	796	

Für den Anmelder / Antragsteller

Deutsches Patent- und Markenamt

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Anlage 2

zur Mitteilung der ermittelten Druckschriften

Aktenzeichen

101 06 982.0

Erläuterungen zu den ermittelten Druckschriften:				
1	2			3
Kate- gorie	Ermittelte Druckschriften/Erläuterungen			Betrifft Anspruch
Y	US	34 27 656 X	Fig.1-11	1,6,10
Y	DE	196 19 449 A1	Fig.1,2	2,3,5,10
Y	FR	26 29 156 A1	Fig.1-3	2,3,4
Y	DE	22 37 408 A	Fig.1,2	2,3,7
Y	US	20 23 796	Fig.1-6	2,3,4,5,10
Y	US	31 69 407	Fig.1-8	1-6
Y	DE	89 06 246 U1	Fig.3	8
Y	DE	6 49 218 C	Abb.6	1,3,4,6,10
Y	EP	02 81 723 A2	Fig.1-7	1,9
Y	DE	31 24 927 A1	Fig.1,2	1,9
Y,D	DE	37 30 393 A1	Fig.1,7	1,5,9